

Welcome to the Biweekly Restoration Information Update Page. This web site

- Provides current information on wetland and river corridor restoration projects
- Recognizes outstanding restoration projects
- Provides a forum for information sharing

We welcome the submission of articles and announcements related to your restoration project. Just send your write-up to EPA's contractor at restorationupdate@tetrattech-ffx.com or mail it to Kathryn Phillips, Biweekly Restoration Update Coordinator, Tetra Tech, Inc., 10306 Eaton Place, Suite 340, Fairfax, VA 22030. We will carefully consider your submission for inclusion in a future update. If your submission is selected, please note that it might be edited for length or style before being posted. Because this web site is meant to be a public forum on restoration information, we cannot post any information that is copyrighted or information that serves or has the appearance to serve as advocating or lobbying for any political, business, or commercial purposes.

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- [Community-Based Restoration Partnerships](#) - This section highlights innovative community-based partnerships working to restore wetlands and river corridors.
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- [News and Announcements](#) - This section includes up-to-date information on regulatory issues affecting restoration, conference and workshop announcements, and other newsworthy tidbits.
- [Restoration-Related Web Sites](#) - Check out other groups on the Web that are helping in the effort to restore wetlands and river corridors.
- [Information Resources](#) - Books, journals, fact sheets, videos, and other information resources to aid you in your restoration project are provided here.

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Feature Article

Salmon Populations Growing After Completion of Haskell Slough Restoration Project

Washington's salmon now have more rearing habitat, thanks to a stream restoration effort by a partnership involving the nonprofit Northwest Chinook Recovery (NCR), private landowners, and state and federal agencies. In early 1999 the team restored the Haskell Slough, a once-important salmon rearing habitat on the Skykomish River. The slough was originally a 3 ½ -mile-long side channel that cut across a wide bend in the river near the town of Monroe in Snohomish County. In the 1930s farmers diked the upstream end of the slough to create more farmland, effectively cutting the salmon off from this valuable habitat resource. Over time the slough silted in until only a series of unconnected ponds remained. Floods frequently trapped salmon in the ponds, where they would eventually die.

To restore the slough, the team dug a 7,000-foot channel to reconnect the ponds and open the area to river flow. They also installed rootwads, large woody debris, log weirs, and other structures to enhance the salmon rearing habitat. Once the restoration was complete, the team placed a system of fish traps to allow the number of fish using the slough to be monitored over a 4-year period. The traps indicated that by June 1999 approximately 3,000 coho salmon smolts

had moved out of the slough on their way to the ocean. A year later that number was up to more than 6,000 smolts.

According to the National Marine Fisheries Service, "Using established criteria for estimating the production of salmonid smolts, we anticipate the additional production of several thousand adult coho. In addition, there will be a benefit to spring chinook and steelhead. A 4-year program of monitoring the migration of smolts out of the slough will provide an accurate assessment of effectiveness of the project and aid in determining additional work to support the concept of enhancement of this type of habitat.."

The restoration project cost more than \$700,000, which included costs for design and permitting (\$60,000), construction (\$300,000), and the acquisition of conservation easements (\$350,000). NCR worked with diverse sources to obtain the necessary funding, including the National Marine Fisheries Service, the Washington State Inter-Agency for Outdoor Recreation, the Washington Department of Fish and Wildlife, the U.S. Fish & Wildlife Service, the Stilliguamish-Snohomish Fisheries Enhancement Task Force, Daley Design, and the National Fish and Wildlife Foundation. The Haskell Slough restoration project is a great example of how a public-private partnership can work.

If you'd like your project to appear as our next Featured Article, e-mail a short description to restorationupdate@tetratex-ffx.com.

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Community-Based Restoration Partnerships Bridge Project Spawns Wetland Restoration

The nonprofit Alexandria Seaport Foundation is restoring wetlands to compensate for wetlands soon to be lost. Impending construction of a replacement for Washington, DC's aging Woodrow Wilson bridge, will destroy about 70 acres of wetlands on the Potomac River near the Alexandria, Virginia, waterfront. The Foundation is trying to offset the damage before it occurs. "Although officials are required to replace the destroyed wetlands, we are not taking any chances," explained MariLou Livingood of the Foundation. "We're not going to wait around." Using \$110,000 in grants from several public and private sources, it has already restored 30 acres of wetlands, and plans are under way to restore an additional 110 acres along the Potomac River and its lower tributaries.

In late March 2001 the Foundation's restoration efforts received a huge boost. Just before bridge construction began, the National Park Service granted the Foundation a 1-week permit to rescue wetland plants from the bridge construction site. Two dozen volunteers braved the cold water to transplant wetland plants from the construction site to a local wetland nursery, where they will remain until they can be used in wetland restoration efforts elsewhere in the lower Potomac River watershed. For more information, contact MariLou Livingood, Alexandria Seaport Foundation, c/o Nannie J. Lee Recreation Center, 1108 Jefferson Street, Alexandria, VA 22314. Phone:(703) 549-7078; fax: (703) 594-6715; e-mail: asoffice@aol.com; web site: www.capaccess.org/asf

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Joining Forces to Restore a Vanishing Wetland Species

Community groups, state and local agencies, and schoolchildren from three Maryland elementary schools are cooperating on an innovative wetland restoration project along the Severn River in Western Maryland. Instead of restoring common wetland species, this project focuses on restoring a 3½-acre stand of the now-rare Atlantic white cedar. Although these trees were once a dominant wetland species along the Atlantic seaboard from Florida to Maine, most of the tall, straight cedars had been cut by 1873. Scientists estimate that only 1 percent of the original cedars remain. Only 1,247 trees remain in the Chesapeake Bay watershed, and all are located in wetland areas along the Severn and Magothy rivers in Maryland.

In late April 2001 more than 100 schoolchildren and other volunteers planted 1,000 cedar seedlings on the site, which will almost double the number of Atlantic white cedars in the two river basins. Before planting the seedlings, project leaders had to bring in more than 7,000 tons of white sand and rock to recreate a suitable growing medium for the cedars. Completed at a cost \$330,000, the restoration project was funded by the state of Maryland, Anne Arundel County, and the Chesapeake Bay Trust.

Community Partnership Restores Lost Wetlands in Washington State

When the Ship Canal was dug in the early 1900s to link Lake Washington to Puget Sound, the level of the lake fell, changing the hydrology of the wetlands along the shore and causing them to fill in with silt and be invaded by exotic vegetation. To restore some of these lost wetlands, the Friends of Luther Burbank Park and King County Parks are partnering to reclaim and restore wetlands at Luther Burbank Park, located on Mercer Island in Lake Washington. King County Parks staff and volunteers meet one Saturday each month to remove invasive species from wetland areas and replant with native wetland plants. They are also building a boardwalk near the wetlands to allow the public to view the project's progress and gain a greater understanding of the importance of wetlands. For more information, see www.metrokc.gov/parks/volunt/lutherb.htm, contact the park volunteer coordinator at (206) 296-2990, or send an e-mail:

tina.miller@metrokc.gov.


If you are part of an innovative community-based partnership that is working to restore river corridors or wetlands, we'd like to hear from you. Please send a short description of your partnership to restorationupdate@tetrattech-ffx.com.

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Funding for Restoration Projects

American Greenways Awards Program Now Accepting Applications

The Conservation Fund and Eastman Kodak Company are accepting applications for the 2001 Kodak American Greenways Awards program through June 1, 2001. Award recipients will receive between \$500 and \$2,500 to help plan and design greenways that link recreational, cultural, and natural features; provide pathways for people and wildlife; and protect forests, wetlands, and grasslands. To learn more about the program, visit


www.conservationfund.org/conservation/amgreen/index.html  and click on "Kodak Awards Program" or contact Leigh Anne McDonald, American Greenways Coordinator, The Conservation Fund, 1800 North Kent Street, Ste. 1120, Arlington, VA 22209. Phone: (703) 526-6300; e-mail: lmcdonald@conservationfund.org.

Wetlands Challenge Grant Deadline Nears

The National Fish and Wildlife Foundation (NFWF), a nonprofit organization established by Congress in 1984, operates a program that awards challenge grants on a competitive basis. Eligible grant recipients include federal, state, and local governments; educational institutions; and nonprofit conservation organizations. The Foundation awards challenge grants using federal matching funds provided by annual congressional appropriations and agreements with federal agencies. The Foundation also receives and awards contributions from select foundations, corporations, and other nonfederal entities.

NFWF awards challenge grants to projects that address priority actions promoting conservation of fish and wildlife and the habitats on which they depend, work proactively to involve other conservation and community interests, leverage Foundation-provided funding, and evaluate project outcomes. Grants range from \$10,000 to \$150,000 and are awarded only if applicants can raise \$2 in challenge funds for every federal matching dollar requested.

Project proposals are received on a year-round, revolving basis with three decision cycles per year. Two decision cycles remain in 2001: preproposals are due on June 1 or October 15, and full proposals are due on July 15 or December 1, respectively. Challenge grant instructions can be accessed through the NFWF home page at <http://www.nfwf.org/programs/guidelines.htm>.

 The site also answers frequently asked questions about the grant process and the grants themselves and provides other useful information. For more information, contact the National Fish and Wildlife Foundation, 1120 Connecticut Avenue, NW, Suite 900, Washington, DC 20036. Phone: (202) 857-0166.

Please send any news you have on funding mechanisms available to local community organizations to restorationupdate@tetrattech-ffx.com.


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News and Announcements

U.S. Fish and Wildlife Service Hosting Wetlandfest 2001

On the weekend of May 19 and 20, the U.S. Fish and Wildlife Service and other organizations will host a wetland education festival on the Town Common in Amherst, Massachusetts, to celebrate National Wetlands Month. The festival will include

- Wetland outreach exhibits (with agency booths offering information on wetland identification, wetland archeology, wetland regulations, and how to build a backyard wetland)
- Wetland-focused and other art exhibits (wildlife photographers, nature photographers, nature artists, potters and a quilt maker)
- Live wetland animal presentations
- Children's activities
- Demonstrations, presentations, and field trips will round out the weekend's activities

For more information, see ><http://northeast.fws.gov/wetlandfest2/> [Link no longer available, October 2003]. 

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Upcoming Conferences and Events:

The Restoration Trust's Wetland Restoration: Practical Design and Application

May 22-25, 2001

San Francisco Estuary Institute, Richmond, California


Participants will get an in-depth look at restoration processes and learn how to meet the challenges of advanced wetland restoration projects during 4 days of detailed training, including 1 day of fieldwork. Participants will benefit from a review of advanced tools and technologies, as well as relevant case studies involving completed wetland restoration projects. Participants will receive a 500-page technical manual on all aspects of wetland restoration and other support materials. Tuition for the course is \$550. For registration or course content questions, contact Devin Schenk, 95 Linden, Suite 6, Oakland, CA 94607. Phone: (510) 622-8110; e-mail: devins@zentner.com.

To post your restoration news and announcements, please send information to restorationupdate@tetrattech-ffx.com.

Society of Wetland Scientist's 22nd Annual Conference

May 27 - June 1, 2001


Chicago, Illinois.

This year's conference, hosted by the Environmental Engineering and Water Resources Group of the American Society of Civil Engineers, will focus on urban wetlands. The conference will include plenary sessions, concurrent technical sessions, field trips, and workshops. For more information, visit <http://www.sws.org/>. 

Coastal and Estuarine Wetland Restoration in the New Millennium

June 18-21, 2001

Baton Rouge, LA

Conducted by the Institute for Wetland Science and Public Policy, Association of State Wetland Managers, the overall goal of the conference is to improve the effectiveness of coastal and estuarine wetland restoration in the new Millennium. The conference includes a 2½ -day symposium and a ½ day workshop focusing on the regulation of "isolated" wetlands. For more information, see <http://www.aswm.org/meeting/coastal01.htm>  or contact the Institute for Wetland Science and Public Policy, Association of State Wetland Managers, P.O. Box 269, Berne, NY 12023-9746. Phone: (518) 872-1804; fax: (518) 872-2171; e-mail: aswm@aswm.org.

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Restoration-Related Web Sites

 http://www.dnr.state.wi.us/org/land/er/publications/coastal_wetlands/CoastalWetlands.htm

Data Compilation and Assessment of Coastal Wetlands of Wisconsin's

Great Lakes. Wisconsin's Coastal Management Program and Endangered Resources Program have joined forces to develop this web site, which raises public awareness about wetland protection and restoration. Still under

development, this site features reports and maps, critical habitat and restoration sites on Lake Michigan and Lake Superior, a photo library, a list of partners, and other data.

<http://ecore Restoration.montana.edu/default.htm>

Ecosystem Restoration. Developed by the Reclamation Research Unit at Montana State University, this web site focuses on the restoration of disturbed land across the United States, including wetlands. A wetlands restoration section offers links to several web sites maintained by federal, state, university, and nonprofit organizations.

<http://www.wcdoe.org/Watershed/watershed.htm>

Overview Description of the Wetland Program in the Rouge Watershed. The identification, protection, and restoration of wetland habitat in Michigan's Rouge River watershed is an important component of the ongoing Rouge River National Wet Weather Demonstration Project. Check out this web site to learn about the Project's subwatershed wetland protection plans and other efforts to meet the project's wetland goals.

<http://www.open.org/~mpubwork/parks/labish/overview.htm>

Wetland and Riparian Area Restoration in the Little Pudding Watershed. Washington's Marion County Department of Public Works, concerned about the poor water quality of streams in the Willamette River Basin, is developing plans to restore watershed health. On this web site, the Department presents a document to generate discussion about why and how wetland and riparian areas in the Little Pudding Watershed should be restored.

Let us know about your restoration-related web site. Please send relevant URLs to restorationupdate@tetrattech-ffx.com.


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Information Resources

Brochure Targets Great Lakes Coastal Wetland Protection

The Michigan Department of Environmental Quality recently released a brochure, *Protecting Wetlands Along the Great Lakes Shoreline*, targeted at coastal landowners and others interested in protecting coastal wetlands and preventing nuisance exotic aquatic plants. The brochure summarizes coastal wetlands and fauna research over the past two decades and provides tips on how to protect and restore coastal wetlands. Copies can be obtained by writing the Office of the Great Lakes at P.O. Box 30473, Lansing, MI 48909-7973. For more information, contact Emily Bankard at (517) 241-7927 or e-mail bankarde@state.mi.us.

Urban Stream Restoration Practices: An Initial Assessment

This publication, developed by The Center for Watershed Protection, assesses 24 different urban stream restoration practices around the Mid-Atlantic and Midwest and is available for \$20. For more information, visit www.cwp.org  or contact the Center for Watershed Protection at 8391 Mail Street, Ellicott City, MD 21043. Phone: (410) 461-8323; fax: (410) 461-8324; e-mail: center@cwp.org.

Video Helps Local Government Manage Wetlands in Texas

Local officials in the Southwest now have another on-line resource to help them manage their wetlands. The North Central Texas Council of Governments offers an on-line video production, *Managing Wetlands in North Texas*, created to introduce local government officials to the physical characteristics, benefits, regulatory process, challenges, and successes of managing wetland

resources. Real-world management applications are explored through a series of case studies.

The video is available at www.dfwinfo.com/envir/wetlands/index.html. 

If you'd like to publicize the availability of relevant information resources, please send information to restorationupdate@tetrattech-ffx.com.